

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001569**Date Inspected:** 15-Feb-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 3AW, Miscellaneous metal**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Base metal abrasive blast inspection of 320 +- splice plates. ZPMC QC representative obtain profiles and monitored ambient conditions. Profile range 76-78um. Some base metal repairs were required on several splice plates ZPMC performed grinding operations and followed up with abrasive blasting to re-establish profile. ABF QA representative present with International Protective Coatings technical representative and Caltrans QA Lumley inspected jointly. ZPMC personnel commenced application of Interzinc 22 to these base metal faying surfaces inside the paint shop.

OBG 3AW

ZPMC personnel perform sanding and screening processes to remove visible dry spray from surfaces previously coated with Interzinc 22 which are to be over coated with Interfine 979. An inspection was performed jointly with Caltrans QA Lumley, ZPMC QC representatives along with ABF representative and International Protective Coatings technical service representative on the interior surfaces coated with Interzinc 22. Some locations exhibited low DFT's (Dry Film Thickness) and were marked for repairs and additional film build. MEK rub testing was performed at numerous locations selected jointly by Caltrans QA Lumley as well as ABF representative and all locations tested were a 5 rating with no loss or staining upon the white cloth utilized for testing. Quarter cure testing was also performed and the coating exhibited a hard polished surface when rubbed with the knurled edge. Pencil hardness testing was also performed and all testing passed the 2H requirement as specified in the contract documents. ZPMC personnel masking areas not to be coated with Interfine 979 "mist coat" where future

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connection assemblies will be affixed to the zinc coated faying surfaces.

Performed joint base metal abrasive blast inspection with ZPMC, ABF and International Protective Coating technical service representative. International Technical representative monitored ambient conditions which were within the requirements for coating application. ZPMC QC personnel obtain profiles which ranged from 70-78 um. ZPMC personnel commenced application of Interzinc 22 to these faying base metal surfaces inside the paint shop.

Summary of Conversations:

No relevant conversations noted on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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| Inspected By: | Lumley,James |
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| Quality Assurance Inspector |
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| Reviewed By: | Miller,Mark |
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| QA Reviewer |
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